

Anti-Peroxiredoxin 6 Antibody [JM11-13]

ET1703-62



| | |
|----------------------------|---|
| Product Type: | Recombinant Rabbit monoclonal IgG, primary antibodies |
| Species reactivity: | Human, Mouse, Rat |
| Applications: | WB, IF-Cell, IF-Tissue |
| Molecular Wt: | Predicted band size: 25 kDa |
| Clone number: | JM11-13 |

Description: Peroxiredoxin-6 is a protein that in humans is encoded by the PRDX6 gene. It is a member of the peroxiredoxin family of antioxidant enzymes. Peroxiredoxin 6 is widely distributed in several organs, especially the lungs. The protein encoded by this gene is a member of the thiol-specific antioxidant protein family. This protein is a bifunctional enzyme with two distinct active sites. It is involved in redox regulation of the cell; it can reduce H₂O₂ and short chain organic, fatty acid, and phospholipid hydroperoxides. It may play a role in the regulation of phospholipid turnover as well as in protection against oxidative injury.

Immunogen: Synthetic peptide within Human Peroxiredoxin 6 aa 175-224 / 224.

Positive control: HeLa cell lysate, K-562 cell lysate, Mouse lung tissue lysate, Mouse liver tissue lysate, Rat lung tissue lysate, Rat liver tissue lysate.

Subcellular location: Cytoplasm. Lysosome.

Database links: SwissProt: P30041 Human | O08709 Mouse | O35244 Rat

Recommended Dilutions:

| | |
|------------------|------------|
| WB | 1:1,000 |
| IF-Cell | 1:50-1:200 |
| IF-Tissue | 1:50-1:200 |

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

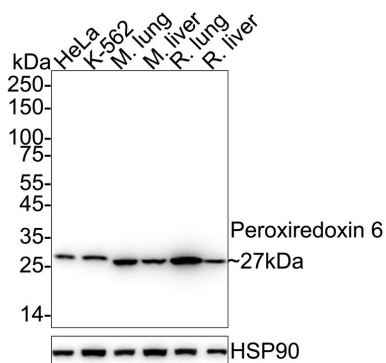


Fig1: Western blot analysis of Peroxiredoxin 6 on different lysates with Rabbit anti-Peroxiredoxin 6 antibody (ET1703-62) at 1/1,000 dilution.

Lane 1: HeLa cell lysate (20 µg/Lane)
 Lane 2: K-562 cell lysate (20 µg/Lane)
 Lane 3: Mouse lung tissue lysate (40 µg/Lane)
 Lane 4: Mouse liver tissue lysate (40 µg/Lane)
 Lane 5: Rat lung tissue lysate (40 µg/Lane)
 Lane 6: Rat liver tissue lysate (40 µg/Lane)

Predicted band size: 25 kDa
 Observed band size: 27 kDa

Exposure time: 6 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1703-62) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

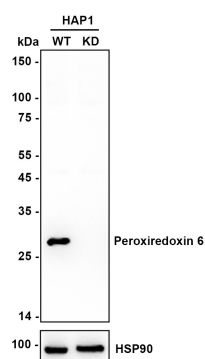


Fig2: Western blot analysis of Peroxiredoxin 6 on different lysates with Rabbit anti-Peroxiredoxin 6 antibody (ET1703-62) at 1/2,000 dilution.

Lane 1: HAP1-parental cell lysate
 Lane 2: HAP1-Peroxiredoxin 6 KD cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 25 kDa
 Observed band size: 27 kDa

Exposure time: 2 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1703-62) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Wang Y et al. Role of hemoglobin and transferrin in multi-wall carbon nanotube-induced mesothelial injury and carcinogenesis. *Cancer Sci* 107:250-7 (2016).
2. Trevisan R et al. Zinc causes acute impairment of glutathione metabolism followed by coordinated antioxidant defenses amplification in gills of brown mussels *Perna perna*. *Comp Biochem Physiol C Toxicol Pharmacol* 159:22-30 (2014).

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